

SWITCHING TYPE POWER SUPPLY APPLICATIONS.

## FEATURES

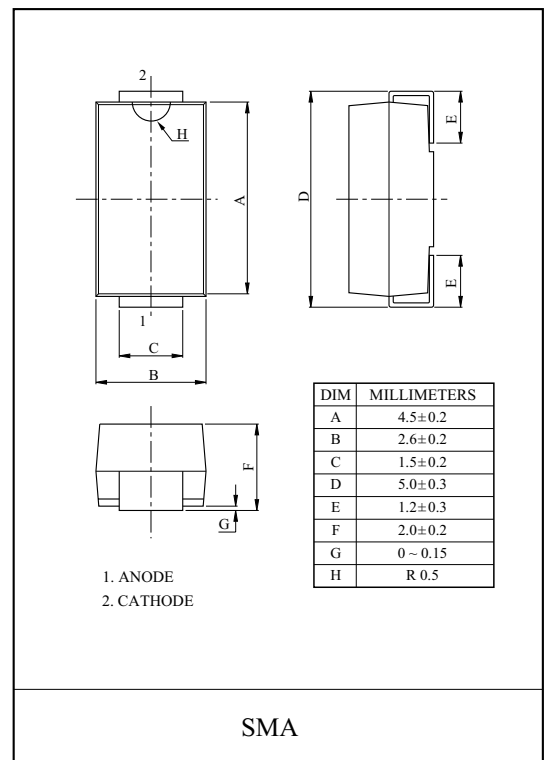
- Low Profile Surface Mount Package.
- Low Power Loss, High Efficiency.
- For Use in Low Voltage, High Frequency inverters, Free Wheeling, and Polarity Protection Applications.

## APPLICATION

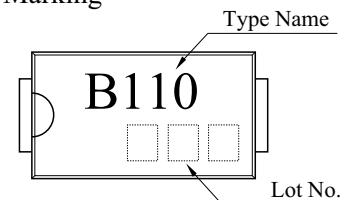
- Switching Power Supply.
- DC/DC Converter.
- Home Appliances, Office Equipment.
- Telecommunication.

## MAXIMUM RATING (Ta=25℃)

| CHARACTERISTIC  | SYMBOL    | RATING    | UNIT |
|---|-----------|-----------|------|
| Maximum Repetitive Peak Reverse Voltage                       | $V_{RRM}$ | 100       | V    |
| Average Output Rectitified Current                            | $I_O$     | 1         | A    |
| Peak One Cycle Surge Forward Current<br>(Non-Repetitive 60Hz) | $I_{FSM}$ | 30        | A    |
| Junction Temperature  | $T_j$     | -40 ~ 125 | ℃    |
| Storage Temperature Range                                     | $T_{stg}$ | -40 ~ 125 | ℃    |



## Marking



## ELECTRICAL CHARACTERISTICS (Ta=25℃)

| CHARACTERISTIC                  | SYMBOL        | TEST CONDITION                                | MIN. | TYP. | MAX. | UNIT |
|---------------------------------|---------------|---|------|------|------|------|
| Peak Forward Voltage            | $V_{FM}$      | $I_{FM}=1.0A$                                 | -    | -    | 0.80 | V    |
| Repetitive Peak Reverse Current | $I_{RRM}$     | $V_{RRM}$ =Rated                              | -    | -    | 1    | mA   |
| Thermal Resistance              | $R_{th(j-l)}$ | Junction to lead                              | -    | -    | 23   | ℃/W  |
|                                 | $R_{th(j-a)}$ | Junction to ambient<br>(on alumina substrate) | -    | -    | 108  |      |

# SMAB110

